

5

## CLAIMS

I claim:

1. A load terminal cover assembly for a circuit breaker installed in an  
2 electrical enclosure, said load terminal cover assembly comprising:  
3 a mounting bracket attachable to a surface of the electrical enclosure;  
4 a load terminal cover having an end wall and a top, said end wall defined  
5 by a first end, a second end and two generally parallel sides intermediate said  
6 first and second ends, said end wall defining an aperture intermediate said first  
7 and second ends for receiving a load conductor and an attachment means  
8 adjacent said second end for attaching said load terminal cover to said mounting  
9 bracket, said top extending generally perpendicularly from said first end of said  
10 side wall, said top being generally flat and defining an access aperture for  
11 accessing said load terminal of said circuit breaker; and,  
12 a load terminal closure, pivotably attached to said load terminal cover for  
13 selective movement between an access aperture closed position wherein access  
14 to said load terminal is prohibited and an access aperture open position wherein  
15 access to said load terminal is permitted.

1. The load terminal cover assembly of claim 1, wherein said end wall further  
2 defines two load conductor shields, each said load conductor shield extending  
3 outwardly from and generally perpendicular to one of said two generally parallel  
4 sides mounting bracket includes a longitudinal section having an attachment foot  
5 at each end for attaching said mounting bracket to said surface of the electrical  
6 enclosure.

NEW U.S PATENT APPLICATION  
ATTY DOCKET NO.: PER-009

1       3.     The load terminal cover assembly of claim 2, wherein said two load  
2     conductor shields are of a predetermined length such that at a distal end is  
3     proximate a load end of said circuit breaker when said load terminal cover is  
4     properly attached to said mounting bracket.

1       4.     The load terminal enclosure assembly of claim 3, wherein said load  
2     conductor aperture is intermediate said load conductor shields such that said  
3     distal end of said load conductor shields prevent unintentional access to any  
4     uninsulated portions of said load conductor adjacent said circuit breaker load  
5     terminal.

1       5.     The load terminal enclosure assembly of claim 1, wherein said mounting  
2     bracket includes a longitudinal section having an attachment foot at each end for  
3     attaching said mounting bracket to said surface of the electrical enclosure.

1       6.     The load terminal enclosure assembly of claim 5, wherein said longitudinal  
2     section of said mounting bracket has a generally hook-like cross-section defined  
3     by a long leg, a short leg and an intermediate web.

1       7.     The enclosure assembly of claim 6, wherein said long leg of said  
2     longitudinal section further define a plurality of apertures spaced at  
3     predetermined intervals along its length.

1       8.     The enclosure assembly of claim 7, wherein said second end of said end

NEW U.S PATENT APPLICATION  
ATTY DOCKET NO.: PER-009

2       wall of said load terminal cover defines a slot for receiving said short leg of said  
3       mounting bracket and locking tab for being snappingly engaged in one of said  
4       plurality of apertures of said long leg of said mounting bracket such as to be  
5       attached thereto.

1       9.       The enclosure assembly of claim 1, wherein a plurality of load terminal  
2       covers can be attached to said mounting bracket.

1       10.      A load terminal cover assembly for a branch circuit breaker installed on a  
2       panel interior of an electrical enclosure, said load terminal cover comprising:  
3                a mounting bracket attachable to a structural member of said panel  
4                interior;

5  
6        a load terminal cover having an end wall and a top, said end wall defined  
7        by a first end, a second end and two generally parallel sides intermediate said  
8        first and second ends, said end wall defining an aperture intermediate said first  
9        and second ends for receiving a load conductor and an attachment means  
10      adjacent said second end for attaching said load terminal cover to said mounting  
11      bracket, said top extending generally perpendicularly from said first end of said  
12      side wall, said top being generally flat and defining an access aperture for  
13      accessing said load terminal of said circuit breaker; and,

14        a load terminal closure, pivotably attached to said load terminal cover for  
15      selective movement between an access aperture closed position wherein access

NEW U.S PATENT APPLICATION  
ATTY DOCKET NO.: PER-009

16 to said load terminal is prohibited and an access aperture open position wherein  
17 access to said load terminal is permitted.

1 11. The load terminal cover assembly of claim 10, wherein said end wall  
2 further defines two load conductor shields, each said load conductor shield  
3 extending outwardly from and generally perpendicular to one of said two  
4 generally parallel sides.

1 12. The load terminal cover assembly of claim 11, wherein said two load  
2 conductor shields are of a predetermined length such that a distal end is  
3 proximate a load end of said branch circuit breaker when said load terminal cover  
4 is properly attached to said mounting bracket.

1 13. The load terminal enclosure assembly of claim 12, wherein said aperture  
2 for receiving said load conductor is intermediate said load conductor shields such  
3 that said load conductor shields prevent unintentional access to any uninsulated  
4 portions of said load conductor adjacent said branch circuit breaker load terminal.

1 14. The load terminal enclosure assembly of claim 10, wherein said mounting  
2 bracket includes a longitudinal section having an attachment foot at each end for  
3 attaching said mounting bracket to said surface of the electrical enclosure.

1 15. The load terminal enclosure assembly of claim 14, wherein said  
2 longitudinal section of said mounting bracket has a generally hook-like cross-

NEW U.S PATENT APPLICATION  
ATTY DOCKET NO.: PER-009

3       section defined by a long leg, a short leg and an intermediate web.

1       16.   The load terminal enclosure assembly of claim 15, wherein said long leg  
2       of said longitudinal section further define a plurality of apertures spaced at  
3       predetermined intervals along its length.

1       17.   The load terminal enclosure assembly of claim 16, wherein said second  
2       end of said end wall of said load terminal cover defines a slot for receiving said  
3       short leg of said mounting bracket and locking tab for being snappingly engaged  
4       in one of said plurality of apertures of said long leg of said mounting bracket such  
5       as to be attached thereto.

1       18.   The load terminal enclosure assembly of claim 10, wherein a plurality of  
2       load terminal covers can be attached to one said mounting bracket.

1       19.   A load terminal cover assembly for a load terminal of a circuit breaker  
2       installed on a panel interior of an electrical enclosure, said load terminal cover  
3       comprising:

4               at least one mounting bracket attachable to said panel interior;  
5               at least one load terminal cover having an end wall and a top, said end  
6       wall defining an aperture for receiving a load conductor, means for preventing  
7       access to uninsulated portions of said load conductor adjacent said circuit  
8       breaker load terminal and an attachment means for attaching to said mounting  
9       bracket, said top defining a load terminal access aperture for accessing said

NEW U.S PATENT APPLICATION  
ATTY DOCKET NO.: PER-009

10 circuit breaker load terminal; and,

11 a load terminal closure associated with said load terminal access aperture,

12 said load terminal closure being attached to said end wall for selective pivotable

13 movement between a closed position prohibiting access to said load terminal and

14 an open position permitting access to said load terminal.

1 20. The load terminal cover assembly of claim 19, wherein said mounting bracket

2 includes a longitudinal section having a hook-like cross-section defined by a long leg, a

3 short leg and an intermediate web, said long leg defining a plurality of apertures, each

4 said aperture being associated with a circuit breaker mounting position of said panel

5 interior and said terminal cover defines an end configured to coincide with said long leg,

6 said short leg and said intermediate leg of said mounting bracket and further includes a

7 locking tab configured for snappingly engaging one of said plurality of aperture of said

8 long leg of said mounting bracket for attaching said terminal cover thereto.